

Meeting the Challenge

Water agencies across the State are facing numerous new pressures and challenges and will continue to do so in the years ahead. We at Desert Water Agency (DWA) are working diligently to protect the quality, affordability, and reliability of your water supply.

Water is a unique resource. Despite its being scarce, it is inexpensive. For less than \$0.007 a gallon, customers can rely on their tap, irrigation, fire protection, and recreation. However, as new regulations come upon us, costs will change. Legislatures and regulators are working to require higher levels of water quality testing and enhanced treatment of existing supplies, which will result in expensive new processes. At DWA, we are urging regulators to closely examine scientific evidence and research before setting new standards.

Additionally, as the economy struggles to recover, pressure continues to spend local ratepayer money outside the service area. The State continues to seek other sources of funding for programs it cannot afford. DWA is working diligently to protect local funds.

Changes are coming, and DWA is preparing to manage them with our customers' interests in mind. We take our customers' trust as a great responsibility.

Thank you,

David K. Luker General Manager and Chief Engineer

Source Water Description

Desert Water Agency is a public, nonprofit agency and State Water Contractor serving a 325-square-mile area including parts of Cathedral City, outlying county areas, Desert Hot Springs, and Palm Springs. An elected five-member board sets policy and represents the ratepayers.

The Whitewater River Subbasin provides groundwater in a continuous process. Mountain streams also bring water by way of Chino Creek, Snow Creek, and Falls Creek. Natural groundwater replenishment is supplemented with Colorado River water imported through the Colorado River Aqueduct to recharge basins near Windy Point and in Desert Hot Springs.

Substances That Could Be in Water

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

In order to ensure that tap water is safe to drink, the U.S. Environmental Protection Agency (U.S. EPA) and the State Department of Public Health (Department) prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. Department regulations also establish limits for contaminants in bottled water that must provide the same protection for public health. Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk.

Contaminants that may be present in source water include:

Microbial Contaminants, such as viruses and bacteria, that may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife;

Inorganic Contaminants, such as salts and metals, that can be naturally occurring or can result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming;

Pesticides and Herbicides, that may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses;

Organic Chemical Contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production and which can also come from gas stations, urban stormwater runoff, agricultural applications, and septic systems;

Radioactive Contaminants, that can be naturally occurring or can be the result of oil and gas production and mining activities.

More information about contaminants and potential health effects can be obtained by calling the U.S. EPA's Safe Drinking Water Hotline at (800) 426-4791.

Your Elected Board of Directors

PresidentPatricia G. OygarVice President F.Thomas Kieley, IIISecretary/TreasurerJames CioffiDirectorCraig A. EwingDirectorJoseph K. Stuart

We invite you to attend our board meetings at 8 a.m. on the first and third Tuesdays of each month at 1200 Gene Autry Trail South, Palm Springs.

Lead in Home Plumbing

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. We are responsible for providing high-quality drinking water, but we cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at www.epa. gov/safewater/lead.

Testing for Cryptosporidium

Cryptosporidium is a microbial pathogen found in surface water throughout the U.S. Although filtration removes Cryptosporidium, the most commonly used filtration methods cannot guarantee 100 percent removal. Our monitoring indicates no presence of these organisms in our source water.

Source Water Assessment

A Source Water Assessment Plan (SWAP) is now available at our office. This plan is an assessment of the delineated area around our listed sources through which contaminants, if present, could migrate and reach our source water. It also includes an inventory of potential sources of contamination within the delineated area, and a determination of the water supply's susceptibility to contamination by the identified potential sources.

The sources of your water are considered vulnerable to activities normally associated with residential, commercial and industrial development. However, all water provided by Desert Water Agency meets all U.S. EPA and CDPH guidelines. To review the SWAP, please contact our office during regular business hours.

Important Health Information

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants may be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. The U.S. EPA/CDC (Centers for Disease Control and Prevention) guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the Safe Drinking Water Hotline at (800) 426-4791 or http://water.epa.gov/drink/hotline.

QUESTIONS?

For more information about this report, or for any questions relating to your drinking water, please call Beth Amheiser, Laboratory Director, at (760) 323-4971 ext. 169.

Chromium-6, a naturally occurring element in local groundwater, is being investigated by regulatory agencies. DWA is closely following and will participate whenever possible in the research developments related to this substance. We look forward to thorough research and studies that will help all of us learn what, if any, impact this substance could have on human health. DWA is always first and foremost concerned with providing our customers a safe, reliable drinking water supply.

Sampling Results

During the past year we have taken hundreds of water samples in order to determine the presence of any radioactive, biological, inorganic, volatile organic, or synthetic organic contaminants. The tables below show only those contaminants that were detected in the water. The State requires us to monitor for certain substances less often than once per year because the concentrations of these substances do not change frequently. In these cases, the most recent sample data are included, along with the year in which the sample was taken.

REGULATED SUB	STANCES	S											
						Distribution System		Groundwater Source		Surface Water Sources			
SUBSTANCE (UNIT OF MEASURE)	s	YEAR SAMPLED		MCL [MRDL]	PHG (MCLG) [MRDLG]	AMOUNT DETECTED	RANGE LOW-HIGH	AMOUNT DETECTED	RANGE LOW-HIGH	AMOUNT DETECTED	RANGE LOW-HIGH	VIOLATION	TYPICAL SOURCE
Chlorine (ppm)		2011	[4.0 (as Cl2)]	[4 (as Cl2)]	0.22	ND-0.98	NA	NA	0.67	0.20-2.2	No	Drinking water disinfectant added for treatment
Fluoride (ppm)		2011 2.0		1	NA	NA	0.6	NA	0.14	ND-0.14	No	Erosion of natural deposits; water additive that promotes strong teeth; discharge from fertilizer and aluminum factories	
Gross Alpha Particle Activity (pCi/L)	e	2011	2011 15		(0)	NA	NA	<3	ND-3.98	<31	<31	No	Erosion of natural deposits
Haloacetic Acids [H (ppb)	[HAAs] ² 2011 6		60	NA	9.4	ND-42.4	NA	NA	NA	NA	No	By-product of drinking water disinfection	
Nitrate [as nitrate] (Nitrate [as nitrate] (ppm) 2011		45		45	NA	NA	7.9	2.0–25	NA	NA	No	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits
TTHMs [Total Trihalomethanes] ² (ppb)		2011	80		NA	15.8	ND-44.8	NA	NA	NA	NA	No	By-product of drinking water disinfection
Total Coliform Bact [Total Coliform Rul positive samples)		2011	More than 5.0% of monthly samples are positive		hly (0)	0.8	ND-3.03%	NA	NA	NA	NA	No	Naturally present in the environment
Turbidity (NTU)	arbidity (NTU)		ТТ		NA	0.12	ND-1.32	ND	NA	NA	NA	No	Soil runoff
Uranium (pCi/L) ¹	Jranium (pCi/L)¹		20		0.43	NA	NA	9.9	7.6–13.6	11.5	NA	No	Erosion of natural deposits
Tap water samples were collected for lead and copper analyses from sample sites throughout the community													
SUBSTANCE (UNIT OF MEASURE)	YEAR SAMPLED	O AL	PHG (MCLG)	AMOUNT DETECTED (90TH%TILE)	SITES ABOVE AL/ TOTAL SITES	VIOLATION	TYPICAL SOURCE	CE					
Copper (ppm)	2009	1.3	0.3	0.18	0/30	No	Internal corro	sion of house	hold plumb	ing systems;	erosion of na	tural deposits	; leaching from wood preservatives
Lead (ppb) 2009		15	0.2		0/30	No	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits						

SECONDARY SUBSTANCES												
				Distribution System		Groundwater Source		Surface Water Sources				
SUBSTANCE YEAR (UNIT OF MEASURE) SAMPLED SMCL			SMCL	PHG (MCLG)	AMOUNT DETECTED	RANGE LOW-HIGH	AMOUNT DETECTED	RANGE LOW-HIGH	AMOUNT DETECTED	RANGE LOW-HIGH	VIOLATION	TYPICAL SOURCE
Chloride (ppm)		2011	500	NS	NA	NA	31	NA	1.9	1.1–2.8	No Runoff/leaching from natural deposits; seawater influence	
Color (Units)		2011	15	NS	0.1	ND-4.9	NA	NA	NA	NA	No	Naturally occurring organic materials
Odor-Threshold (Units)	2011	3	NS	NA	NA	1	NA	1	1–1	No	Naturally-occurring organic materials
Specific Conductar	nce (μS/cm)	2011	1,600	NS	NA	NA	570	NA	170	78–320	No Substances that form ions when in water; seawater influences	
Sulfate (ppm)		2011	500	NS	NA	NA	100	NA	5.5	0.81–16	No	Runoff/leaching from natural deposits; industrial wastes
Total Dissolved So	olids (ppm)	2011	1,000	NS	NA	NA	350	NA	110	49–200	No	Runoff/leaching from natural deposits
Turbidity (NTU)		2011	5	NS	NA	NA	NA	NA	0.4	0.3-0.6	No	Soil runoff
OTHER SUBSTANCES												
			District of		Groundwater Source							
					Distribution	i System	Groundwate	r Source	Surface Wa	ter Sources		
SUBSTANCE (UNIT OF MEASURE)	YEAR SAMPLED	MCL [MRDL]		(MCLG) RDLG]	AMOUNT DETECTED	RANGE	AMOUNT	RANGE	Surface War AMOUNT DETECTED	RANGE LOW-HIGH	VIOLATION	TYPICAL SOURCE
			[M		AMOUNT	RANGE	AMOUNT	RANGE	AMOUNT	RANGE	VIOLATION No	TYPICAL SOURCE Influenced by hydrogen, carbon, oxygen, and temperature
(UNIT OF MEASURE)	SAMPLED	[MRDL]	re N	RDLG]	AMOUNT DETECTED	RANGE LOW-HIGH	AMOUNT DETECTED	RANGE LOW-HIGH	AMOUNT DETECTED	RANGE LOW-HIGH 10.65-		
(UNIT OF MEASURE) Aggressive Index	SAMPLED 2009	[MRDL] Nonaggressiv	re 1	RDLG] None	AMOUNT DETECTED NA	RANGE LOW-HIGH NA	AMOUNT DETECTED	RANGE LOW-HIGH	AMOUNT DETECTED	RANGE LOW-HIGH 10.65— 11.19	No	Influenced by hydrogen, carbon, oxygen, and temperature Function of carbonate, hydroxide, and bicarbonate; naturally
(UNIT OF MEASURE) Aggressive Index Alkalinity (ppm)	2009 2011	[MRDL] Nonaggressiv None	re 1	None None	AMOUNT DETECTED NA NA	RANGE LOW-HIGH NA NA	AMOUNT DETECTED 12.5 130	RANGE LOW-HIGH 12–13 NA	AMOUNT DETECTED 10.84	RANGE LOW-HIGH 10.65– 11.19 40–140	No No	Influenced by hydrogen, carbon, oxygen, and temperature Function of carbonate, hydroxide, and bicarbonate; naturally occurring
(UNIT OF MEASURE) Aggressive Index Alkalinity (ppm) Bicarbonate	2009 2011 2011	[MRDL] Nonaggressiv None None	e n	None None None	AMOUNT DETECTED NA NA NA	RANGE LOW-HIGH NA NA NA	12.5 130 160	RANGE LOW-HIGH 12–13 NA NA	10.84 81 100	RANGE LOW-HIGH 10.65- 11.19 40-140 49-170	No No No	Influenced by hydrogen, carbon, oxygen, and temperature Function of carbonate, hydroxide, and bicarbonate; naturally occurring Naturally occurring
(UNIT OF MEASURE) Aggressive Index Alkalinity (ppm) Bicarbonate Calcium	2009 2011 2011 2011 2011	Monaggressiv None None None	re n	None None None None None	NA NA NA NA	RANGE LOW-HIGH NA NA NA NA	12.5 130 160 70	RANGE LOW-HIGH 12–13 NA NA NA NA	10.84 81 100 26	RANGE LOW-HIGH 10.65- 11.19 40-140 49-170 11-48	No No No No	Influenced by hydrogen, carbon, oxygen, and temperature Function of carbonate, hydroxide, and bicarbonate; naturally occurring Naturally occurring Contributes to water hardness; naturally occurring
(UNIT OF MEASURE) Aggressive Index Alkalinity (ppm) Bicarbonate Calcium Hardness (ppm)	2009 2011 2011 2011 2011 2011	[MRDL] Nonaggressiv None None None None	IM III III III III III III III III III	None None None None None None	NA	RANGE LOW-HIGH NA NA NA NA NA	12.5 130 160 70 230	RANGE LOW-HIGH 12–13 NA NA NA NA	10.84 81 100 26 68	RANGE LOW-HIGH 10.65- 11.19 40-140 49-170 11-48 26-130	No No No No No	Influenced by hydrogen, carbon, oxygen, and temperature Function of carbonate, hydroxide, and bicarbonate; naturally occurring Naturally occurring Contributes to water hardness; naturally occurring Naturally occurring
(UNIT OF MEASURE) Aggressive Index Alkalinity (ppm) Bicarbonate Calcium Hardness (ppm) MBAS	2009 2011 2011 2011 2011 2011 2011	Nonaggressiv None None None None O.5	re n	None None None None None None None None	NA	NA	12.5 130 160 70 230 0.11	RANGE LOW-HIGH 12–13 NA NA NA NA NA NA	10.84 81 100 26 68 ND	RANGE LOW-HIGH 10.65- 11.19 40-140 49-170 11-48 26-130 ND	No No No No No No No	Influenced by hydrogen, carbon, oxygen, and temperature Function of carbonate, hydroxide, and bicarbonate; naturally occurring Naturally occurring Contributes to water hardness; naturally occurring Naturally occurring

	UNREGULATED SUBSTANCES											
			Groundwat	er Source	Surface Wat	ter Sources						
SUBSTANCE (UNIT OF YEAR MEASURE) SAMPLED			AMOUNT DETECTED	RANGE LOW-HIGH	AMOUNT DETECTED	RANGE LOW-HIGH	TYPICAL SOURCE					
	Sodium (ppm)	2011	26	NA	8.5	4.7–13	Erosion of natural deposits					
	Vanadium (ppb) 2011		8.1	NA	0.85	ND-3.4	Erosion of natural deposits					

¹ Sampled in 2010

²We were required by the U.S. EPA to conduct an evaluation of our distribution system. This is known as an Initial Distribution System Evaluation (IDSE) and is intended to identify locations in our distribution system that have elevated concentrations of disinfection by-products. Disinfection by-products (e.g., HAAs and TTHMs) result from continuous disinfection of drinking water and form when disinfectants combine with organic matter that naturally occurs in the source water.

Definitions

AL (**Regulatory Action Level**): The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.

μS/cm (microsiemens per centimeter): A unit expressing the amount of electrical conductivity of a solution.

MCL (Maximum Contaminant Level): The highest level of a contaminant that is allowed in drinking water. Primary MCLs are set as close to the PHGs (or MCLGs) as is economically and technologically feasible. Secondary MCLs (SMCLs) are set to protect the odor, taste, and appearance of drinking water.

MCLG (Maximum Contaminant Level Goal): The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs are set by the U.S. EPA.

MRDL (Maximum Residual Disinfectant Level): The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

MRDLG (Maximum Residual Disinfectant Level Goal): The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

NA: Not applicable

ND (Not detected): Indicates that the substance was not found by laboratory analysis.

NS: No standard

NTU (Nephelometric Turbidity Units): Measurement of the clarity, or turbidity, of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

pCi/L (**picocuries per liter**): A measure of radioactivity.

PDWS (Primary Drinking Water Standard): MCLs and MRDLs for contaminants that affect health along with their monitoring and reporting requirements and water treatment requirements.

PHG (Public Health Goal): The level of a contaminant in drinking water below which there is no known or expected risk to health. PHGs are set by the California EPA.

ppb (parts per billion): One part substance per billion parts water (or micrograms per liter).

ppm (parts per million): One part substance per million parts water (or milligrams per liter).

TT (**Treatment Technique**): A required process intended to reduce the level of a contaminant in drinking water.